

AIChE Process Development Division Spring Newsletter 2023



SPRING23
+19TH GCPS
A Joint AIChE and CCPS Meeting



For more information, visit

<http://www.aiche.org/community/sites/divisions/process-development>

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Spring Newsletter Outline:

Welcome to the Spring 2023 edition of the Process Development Division Newsletter. As usual, our spring edition centers around activities planned at the Spring Meeting, scheduled for March 12 – 16 in Houston, TX this year. You will find information on division specific activities as well as some general programming information. We hope you are planning to attend and that we'll see you there at the PDD events.

You will also find information on our spring PDD award winner, the upcoming 2023 Process Development Symposium, and other division highlights and opportunities to volunteer in division activities. Please consider becoming engaged in these opportunities, and if you are not a member, please consider joining our group.

Have a great spring, and we hope to see you in Houston or at the Annual meeting in Orlando this November.

Please Join: Process Development Division (PDD)

The Process Development Division promotes networking and communication amongst engineers and scientists interested in process development. The division sponsors meetings, dinners, seminars, technical programming, and publications. The division provides a forum for the engineer and educator to exchange information and ideas related to process development. Please join or encourage your colleagues to join if they are not already members.

Chartered 2000, Annual Dues: \$10

Message from the Chair

Dear PDD Members:

Warmest greetings! We are delighted to share with you our 2023 Spring Newsletter. With this opportunity, you will see our recipient of 2023 AIChE Process Development Practice Award. Meanwhile, we are happy to announce that our PDD webinar series will start online this year. The first invited speaker of our PDD webinar is Dr. Yinlun Huang from Wayne State University. He will present a systematic approach to Smart and Sustainable Manufacturing. **Your participation is highly encouraged.** Also, in this newsletter you will be debriefed about the PDD meetings, presentation sessions, and dinner event scheduled during the coming 2023 AIChE Spring meeting in Houston, Texas. Meanwhile, the most updated PDD information for the 2023 AIChE Annual Meeting as well as Process Development Symposium will also be provided. As always, your attention, participation and support for those activities are greatly appreciated. Finally, please feel free to share this newsletter with your colleagues and friends. We hope you will enjoy reading this newsletter and give feedback on your thoughts.

Best regards,

Qiang Xu

PDD Chair

Professor

University Professor & Scholar

Distinguished Faculty Research Fellow

Dan F. Smith Department of Chemical & Biomolecular Engineering

Lamar University, Beaumont, TX 77710

Tel: (409) 880-7818; Email: Qiang.xu@lamar.edu



2023 PDD Spring Meeting Events

PDD Leadership Meeting

Sunday, March 12, 4:00 – 5:00 PM

Online Meeting Only

Contact Qiang Xu for more information

PDD Programming Meeting

Monday, March 13, 6:00 – 7:00 PM

Hilton Americas – 339A

<https://aiche.confex.com/aiche/s23/meetingapp.cgi/Session/52633>

PDD Dinner (Ticketed Event)

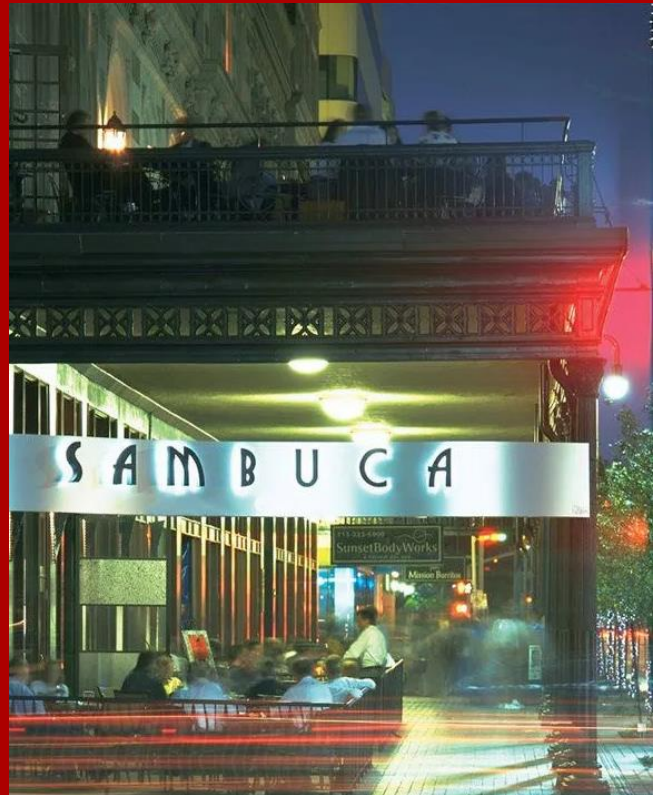
Tuesday, March 14

Sambuca – Mezzanine & VIP Room

See more information on the following page

Division meetings are great places to get involved in division activities. Please attend or reach out to PDD leadership listed at the end of this newsletter if you are looking for opportunities to become more involved.

Process Development Division Dinner



Sambuca Restaurant
Mezzanine & VIP Room
909 Texas Avenue
Houston, TX 77002

Tuesday, March 14

Dinner 7:30 PM: Ticketed Event: \$65

Free Reception for PDD Members 6:30 – 7:30 PM

Please join us for an evening of dining and conversation within walking distance of the Convention Center. The dinner is always a PDD highlight of the AIChE meetings and is a great time to meet fellow members. This is a ticketed event. Tickets can be purchased through AIChE prior to the event or at the registration desk upon arrival. Seating is limited, so get your tickets early.

Photo Credits: sambucahouston.com

Process Development Division Awards

Process Development Practice Award Sponsored by Zeton



Dr. Kishori Deshpande

Senior Research Scientist
The Dow Chemical Company
Packaging, Specialty Plastics & Hydrocarbons R&D

Congratulations to Dr. Kishori Deshpande for being the recipient of the 2023 Process Development Practice Award. This award recognizes long-term contributions in the field of applied, commercial process development. Dr. Deshpande will be honored at the Spring PDD Dinner in Houston.

Dr. Deshpande's research focuses on the manufacturing robustness of Dow's catalyst manufacturing assets, process design and reactor scale-up for sustainable processing for new builds, and developing the fundamental understanding of gas phase polyethylene reactions.

Interested in nominating yourself or a colleague for the following categories?

- Excellence in Process Development Research Award
- Process Development Practice Award
- Process Development Division Student Paper Award

Please fill out the Division Award nomination form at the address below and send it to

Jay.F.Miller@gmail.com

<https://www.aiche.org/awards/awards-provisions-eligibility#division-forum-nomination>

2023 Process Development Symposium



What's better than one PDS? How about TWO?

Thanks to the hard work of our coordinators and planning committees, there will be a Process Development Symposium in North America and in Europe in 2023.

North America

June 13 – 15, 2023

Vancouver, Canada

Theme: Process Development Opportunities for our Changing Industries

Proposed Sessions:

- Sustainability – 2 Sessions
 - Net Zero, Decarbonization
 - Designing Sustainable Processes, Life Cycle Assessment
- Data & Next-Gen – 2 Sessions
 - Process Intensification, Modular Processes, Tech Transfer
 - AI, Digital Twins, Data Analytics
- Panel / Interactive Session
- Innovation and New Technologies
- General Interest – 2 Sessions
 - Batch vs. Continuous, Scale-up, QbD, Economics, Other Perspectives, Soft Skills



Call for Abstracts: <https://www.aiche.org/conferences/process-development-symposium/2023/2023-call-abstracts-information>

For More Information: <https://www.aiche.org/conferences/process-development-symposium/2023>

2023 Process Development Symposium

Europe

June 26 – 28, 2023

Frankfurt am Main, Germany



Theme: Manufacturing of the Future

A New Vision for Process & Product Development

Proposed Sessions:

- Plenary Speakers from BASF, RAPID, and Veolia
- Laboratory of the Future
- Manufacturing of the Future
- Energy Transition
- Artificial Intelligence
- Bioprocessing and System Biology
- Impact of Product on Health and Environment – Importance of Toxicity
- Product Design – Stewardship
- Project Engineering
- Flow Chemistry
- Process Synthesis: New Tools and Applications

Call for Abstracts: <https://aiche.confex.com/aiche/pdseu23/cfp.cgi>

For More Information: <https://www.aiche.org/conferences/process-development-symposium-europe/2023>



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Process Development Division

2023 Spring Meeting Technical Programming / Sessions

<https://aiche.confex.com/aiche/s23/meetingapp.cgi/Program/3227>



Photo Credits: Hilton.com

All times are Houston local time.

Monday, March 13

Process Development Division Programming Meeting

6:00 – 7:00 PM: Hilton Americas – 339A

42 Poster Session

6:00 – 8:00 PM: GRB – Exhibit Hall E



Tuesday, March 14

55 Modeling Tools and Techniques for Process R&D I

9:00 – 10:30 AM: Hilton Americas – 339A

72 Modeling Tools and Techniques for Process R&D II

11:15 AM – 12:45 PM: Hilton Americas – 339A

89 Advances in Process Design and Development I

2:30 – 4:00 PM: Hilton Americas – 339A

105 Advances in Process Design and Development II

4:30 – 6:00 PM: Hilton Americas – 339A

Wednesday, March 15

118 Advanced Carbon Reduction Techniques

9:00 – 10:30 AM: Hilton Americas – 339A

134 Process Scale Up and Safety

11:15 AM – 12:45 PM: Hilton Americas – 339A

141 Cost-Effective Commercialization of New Processes or Products

2:30 – 4:00 PM: Hilton Americas – 339A

2023 Annual Meeting

November 5 – 10, 2023
Hyatt Regency Orlando
Orlando, Florida



The upcoming Annual Meeting will be held in Orlando, Florida in November 2023. Mark your calendars and join us for another chance to meet and share ideas.

While you're at it, please consider submitting an abstract to present at one of the technical sessions. New submissions must be entered by Monday, April 3, 2023.

<https://aiche.confex.com/aiche/2023/prelim.cgi/ModuleProgramBook/0>

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AIChE PDD Webinar Series

PDD is excited to bring to you the first in a series of planned webinars aimed at the common interest of our membership. Be sure to look for announcements regarding future webinars.

Technology Development and Assessment for Smart and Sustainable Manufacturing: A Multiscale Systems Engineering Approach

**Friday, March 10
2:00 – 3:15 PM Central Time Zone**

Yinlun Huang



Department of Chemical Engineering and Materials Science
Wayne State University
Detroit Michigan

Registration is Free:

https://aiche.zoom.us/webinar/register/WN_PHsgd6wqSI-1WdhAVOLEkA

Process Development Division Leadership Team

	<p>Chair Qiang Xu Lamar University (409) 880-7818 Qiang.xu@lamar.edu</p>		<p>Chair Elect Kishori Deshpande Dow Chemical (979) 238-5868 KDeshpande@dow.com</p>
	<p>Fall Program Chair Vinod Kumar Venkatakrishnan Shell (281) 544-7567 v.venkatakrishnan2@shell.com</p>		<p>Spring Program Chair Juben Chheda Shell (281) 544-8232 Juben.chheda@shell.com</p>
	<p>Membership Chair Johnathan Lekse NETL (412) 386-7312 Jonathan.Lekse@NETL.DOE</p>		<p>Awards Chair Jay Miller Arkema (610) 359-2092 Jay.f.miller@gmail.com</p>
	<p>Treasurer Raymond Rooks AVN Corp (304) 720-1037 Raymond.Rooks@avncorp.com</p>		<p>Webmaster Pat Heider Dow (989) 636-1923</p>
	<p>Past Chair Anthony Cartolano Retired arcartolano@gmail.com</p>		<p>Newsletter Editor Rob Nunley AVN Corp (304) 720-6707 Rob.Nunley@avncorp.com</p>

2022 PDD Area Leadership

Name	Position	E-mail Address
Raymond Jian	12A Chair	rjian@sabic.com
Ben Yang	12A Chair Elect	xyang116@umd.edu
Mo Jiang	12A Area Coordinator	mjiang3@vcu.edu
Marek, James C	12A past chair	james.marek@abbvie.com
Madhav Ghanta	12B Chair	madhav.ghanta@sabic-hpp.com
Pratik Bhishikar	12B Chair Elect	pbhishikar@zeton.com
Ida (Xue) Chen	12B Area Coordinator	Chen2c7ab2@dow.com
Mike Trainor	12B past chair	mtrainor@zeton.com
Ha Dinh	12C/D Chair	Ha.Dinh@honeywell.com
Michael Telgenhoff	12C/D Chair elect	michael.telgenhoff@dow.com
Mrunmayi Kumbhalkar	12C/D Area Coordinator	mkumbhalkar@dow.com
Rob Nunley	12C/D past chair	rob.nunley@matricinnovates.com
Robert Broekhuis	12E/F Chair	rbroekhuis@sabic.com
Patrick Heider	12E/F Chair Elect	pheider@dow.com
Jing Luo	12E/F Area Coordinator	jluo2@dow.com
Matthaeus Siebenhofer	12E/F past chair	m.siebenhofer@tugraz.at
Mu Wang	12G Chair	wang.m.13@pg.com
Shaibal Roy	12G Chair Elect	shaibal.roy@fmc.com
Pranav Karanjkar	12G Area Coordinator	pranav.karanjkar@dow.com
Kishori Deshpande	12G past chair	kdeshpande@dow.com

2022 PDD Liaisons

Ahmed Youssef	YP Liaison	ahmed.youssef@sabic.com
Aaron Sarafinas	PDS Liaison	aaron@sarafinasprocess.com
Mary T. am Ende	CTOC Liaison	mary.t.amende@nalasengineering.com